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मानक

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Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

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“Step Out From the Old to the New”

IS 12191 (1987): Felling Wedges [FAD 21: Farm Implements and Machinery]



“ज्ञान से एक नये भारत का निर्माण”

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“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

SPECIFICATION FOR FELLING WEDGES

1. Scope — Specifies the material, dimensions and other requirements of felling wedges.

2. Types

2.1 Type A — Steel wedge with wooden head, or socket wedge (see Fig. 1).

2.2 Type B — Solid steel wedge (see Fig. 2).

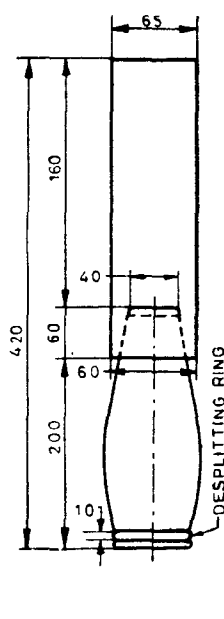


FIG. 1 TYPE A STEEL WEDGE WITH WOODEN HEAD OR SOCKET WEDGE

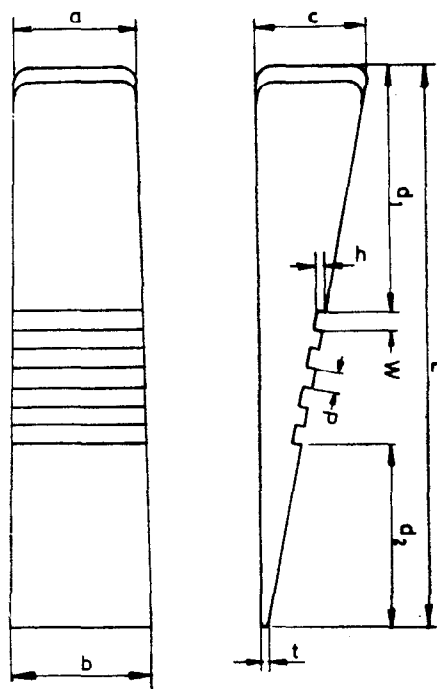


FIG. 2 TYPE B SOLID STEEL WEDGE

3. Material — The wedge shall be forged from mild steel or structural steel [see IS : 226-1975 'Specification for structural steel (standard quality) (fifth revision)'].

3.1 The wooden head in case of Type A wedge shall be made from any hard wood such as *Acacia arabica* (Babul), *Acacia catechu* (Khair), *Adina cordifolia* (Haldu), *Anogeissus latifolia* (Bakli), *Ougeinia dalbergioides* (Sandan), *Schleichera trijuga* (Kusum), *Shorea robusta* (Sal), *Terminalia tomentosa* (Laurel), etc.

3.1.1 Wooden blanks shall be free from knots, decay (rot), splits, borer holes, etc.

3.2 Desplitting ring in case of Type A wedge shall be made of mild steel (see IS : 226-1975).

4. Shape and Dimensions

4.1 The shape and dimensions of Type A wedge shall be as given in Fig. 1.

4.2 The shape and dimensions of Type B wedge shall be as given in Fig. 2. and Table 1 respectively.

TABLE 1 DIMENSIONS OF TYPE B WEDGES

(Clause 4.2)

All dimensions in millimetres.

Sl No.	L	a	b	c	t	d ₁	d ₂	Number of Grooves	Groove Pitch	Groove Width	Groove Depth
1	75	45	50	15	2	30	15	2	10	10	2
2	175	50	60	25	2	85	40	3	10	10	3
3	250	55	65	45	2	130	50	4	10	10	4
4	325	65	75	60	3	150	100	4	10	10	5

Note — The tolerance on dimension L and c shall be in such a way that wedge angle is in the range of 9.5 to 10.5°.

5. Workmanship and Finish — Wedges shall be forged to shape and shall be free from cracks, pits, flaws, burrs and other defects.

6. Designation — Solid steel wedge of nominal size, L, 325 mm shall be designated as : Type B 325 IS : 12191-1987.

7. Marking — Each wedge shall be legibly and indelibly stamped with the manufacturer's name or trade-mark, type and nominal size on the steel portion.

7.1 Standard Marking — Details available with the Bureau of Indian Standards.

8. Preservation and Packing — The wedges shall be given a suitable rust preventive treatment and the packing shall be as agreed to between the manufacturer and the purchaser.

9. Sampling — Unless otherwise agreed to between the supplier and the purchaser, the sampling plan and criteria for conformity as given in Appendix A shall be followed.

APPENDIX A

(Clause 9)

SCALE OF SAMPLING AND CRITERIA FOR CONFORMITY

A-1. Scale of Sampling

A-1.1 Lot — If any consignment, all the wedges of same type and nominal size manufactured under similar conditions of manufacture shall be grouped together to constitute a lot.

A-1.2 For ascertaining the conformity of the lot to the requirements of this specification, tests shall be carried out from the wedges selected from each lot separately. The number of wedges to be selected at random from a lot shall be in accordance with col 1 and 2 of Table 2. To ensure the randomness of selection, the procedure, as laid down in IS : 4905-1968 'Methods for random sampling', shall be followed.

TABLE 2 SAMPLING SIZE AND PERMISSIBLE NUMBER OF DEFECTIVES

(Clauses A-1.2 and A-2.1.1)

Lot Size	Sample Size	Permissible Number of Defectives
(1)	(2)	(3)
Up to 50	5	0
51 to 150	8	0
151 to 300	13	1
301 to 500	20	1
501 and above	32	3

A-2. Number of Tests and Criteria for Conformity

A-2.1. The wedges selected according to **A-1.2** shall be examined for material (*see 3*), dimensions (*see 4.1*) and general requirements (*see 5 and 8*). Any wedge failing to meet the requirements for any one or more of the characteristics mentioned above shall be declared defective.

A-2.1.1 The lot shall be considered conforming to the requirements of the characteristics mentioned above if the number of wedges found defective is less than or equal to the corresponding number given in col 3 of Table 2.

EXPLANATORY NOTE

Socket wedges or Type A wedges are used for felling and cross cutting of large size trees.

Solid steel wedges or Type B wedges are used for felling, cross cutting and splitting of medium and small size trees.

In the preparation of this standard, assistance has been derived from the Logging Development Division, Forest Research Institute and Colleges, Dehradun.